

AS90 11/10/01

OIPE #2

CRF Errors Corrected by the STIC Systems Branch

CRF Processing Date: 11/7/2001  
Edited by: [Signature]  
Reviewed by: [Signature] (STIC staff)

Serial Number: 09/976,800

**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;  
☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95

## RAW SEQUENCE LISTING

DATE: 11/07/2001

PATENT APPLICATION: US/09/976,800

TIME: 18:03:12

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11072001\I976800.raw

P.5

```

3 <110> APPLICANT: Wilson, Ron C.
4      Craft, David L.
5      Eirich, Dudley
6      Eshoo, Mark
7      Madduri, Krishna M.
8      Cornett, Cathy A.
9      Brenner, Alfred A.
10     Tang, Maria
11     Loper, John C.
12     Gleeson, Martin
14 <120> TITLE OF INVENTION: CYTOCHROME P450 MONOOXYGENASE AND NADPH CYTOCHROME P450
OXIDOREDUCTASE
15     GENES AND PROTEINS RELATED TO THE OMEGA HYDROXYLASE COMPLEX OF CANDIDA
16     TROPICALIS AND METHODS RELATING THERETO
18 <130> FILE REFERENCE: 1010-16
C--> 20 <140> CURRENT APPLICATION NUMBER: US/09/976,800
C--> 21 <141> CURRENT FILING DATE: 2001-10-12
23 <160> NUMBER OF SEQ ID NOS: 118
25 <170> SOFTWARE: PatentIn version 3.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 32
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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39 <210> SEQ ID NO: 2
40 <211> LENGTH: 30
41 <212> TYPE: DNA
42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
47 <400> SEQUENCE: 2
48 ccttaattaa gcataagctt gctcgagtct                               30
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 31
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
59 <400> SEQUENCE: 3
60 ccttaattaa acgcaatggg aacatggagt g                               31
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 34
65 <212> TYPE: DNA
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:

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69 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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76 <211> LENGTH: 29
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
83 <400> SEQUENCE: 5
84 ccttaattaa tcaaagtacg ttcaggcgg 29
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 34
89 <212> TYPE: DNA
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
95 <400> SEQUENCE: 6
96 ccttaattaa ggcagacaac aacttggaag agtc 34
99 <210> SEQ ID NO: 7
100 <211> LENGTH: 31
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
107 <400> SEQUENCE: 7
108 ccttaattaa gaggtcgttg gttgagtttt c 31
111 <210> SEQ ID NO: 8
112 <211> LENGTH: 29
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
119 <400> SEQUENCE: 8
120 ccttaattaa ttgataatga cgttgccggg 29
123 <210> SEQ ID NO: 9
124 <211> LENGTH: 33
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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135 <210> SEQ ID NO: 10
136 <211> LENGTH: 34
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer

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144 ccttaattaa tacgtggata ccttcaagca agtg 34
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148 <211> LENGTH: 35
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
155 <400> SEQUENCE: 11
156 ccttaattaa gctcacgagt tttgggattt tcgag 35
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160 <211> LENGTH: 35
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
167 <400> SEQUENCE: 12
168 gggtttaaac cgcagagggtt ggtctttttg gactc 35
171 <210> SEQ ID NO: 13
172 <211> LENGTH: 10
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
179 <400> SEQUENCE: 13
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183 <210> SEQ ID NO: 14
184 <211> LENGTH: 9
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
191 <400> SEQUENCE: 14
192 aggcgcgcc 9
195 <210> SEQ ID NO: 15
196 <211> LENGTH: 10
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
203 <400> SEQUENCE: 15
204 ccttaattaa 10
207 <210> SEQ ID NO: 16
208 <211> LENGTH: 21
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
215 <220> FEATURE:

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11072001\I976800.raw

```

216 <221> NAME/KEY: misc_feature
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218 <223> OTHER INFORMATION: y=dCTP or dTTP
221 <220> FEATURE:
222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (9)..(10)
224 <223> OTHER INFORMATION: w=dATP or dTTP
227 <220> FEATURE:
228 <221> NAME/KEY: misc_feature
229 <222> LOCATION: (15)..(16)
230 <223> OTHER INFORMATION: w=dATP or dTTP
233 <220> FEATURE:
234 <221> NAME/KEY: misc_feature
235 <222> LOCATION: (18)..(19)
236 <223> OTHER INFORMATION: w=dATP or dTTP
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240 tcycaaacwg gtacwgcwga a 21
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246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
251 <220> FEATURE:
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253 <222> LOCATION: (12)..(13)
254 <223> OTHER INFORMATION: y=dCTP or dTTP
257 <220> FEATURE:
258 <221> NAME/KEY: misc_feature
259 <222> LOCATION: (15)..(16)
260 <223> OTHER INFORMATION: w=dATP or dTTP
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264 ggtttgggta aytcwactta t 21
267 <210> SEQ ID NO: 18
268 <211> LENGTH: 18
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
275 <400> SEQUENCE: 18
276 cgttattatc atttcttc 18
279 <210> SEQ ID NO: 19
280 <211> LENGTH: 20
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
287 <220> FEATURE:
288 <221> NAME/KEY: misc_feature

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TIME: 18:03:12


Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11072001\I976800.raw

```

289 <222> LOCATION: (3)..(4)
290 <223> OTHER INFORMATION: m=dATP or dCTP
293 <220> FEATURE:
294 <221> NAME/KEY: misc_feature
295 <222> LOCATION: (9)..(10)
296 <223> OTHER INFORMATION: r=dATP or dGTP
299 <400> SEQUENCE: 19
300 gcmacaccrg tacctggacc 20
303 <210> SEQ ID NO: 20
304 <211> LENGTH: 18
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
311 <400> SEQUENCE: 20
312 atcccaatcg taatcagc 18
315 <210> SEQ ID NO: 21
316 <211> LENGTH: 18
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
323 <400> SEQUENCE: 21
324 acttgtcttc gttagca 18
327 <210> SEQ ID NO: 22
328 <211> LENGTH: 18
329 <212> TYPE: DNA
330 <213> ORGANISM: Artificial Sequence
332 <220> FEATURE:
333 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
335 <400> SEQUENCE: 22
336 ctacgtctgt ggtgatgc 18
339 <210> SEQ ID NO: 23
340 <211> LENGTH: 17
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
345 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
347 <220> FEATURE:
348 <221> NAME/KEY: misc_feature
349 <222> LOCATION: (3)..(4)
350 <223> OTHER INFORMATION: n=dATP or dCTP or dGTP or dTTP
353 <220> FEATURE:
354 <221> NAME/KEY: misc_feature
355 <222> LOCATION: (6)..(7)
356 <223> OTHER INFORMATION: Y=dCTP or dTTP
359 <220> FEATURE:
360 <221> NAME/KEY: misc_feature
361 <222> LOCATION: (9)..(10)

```


 Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

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Input Set : A:\PTO.AMC.txt

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L:20 M:270 C: Current Application Number differs, Replaced Current Application Number

L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23

L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24

L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25

L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26